

Traffic & Transportation

Sunnyvale has developed an excellent transportation infrastructure, but regional and local growth and the passage of time have put continual strain on capacity and maintenance needs. To Sunnyvale's credit, the City has proactively conducted long range planning for traffic and transportation needs for a number of years. The City conducts comprehensive long range assessments of its transportation infrastructure replacement needs and coordinates this with long range budgeting. In addition, the City has comprehensively planned for alternative transportation facilities to position itself to compete strongly for outside specialized discretionary funding as it comes available.

Another means of identifying transportation improvement projects are development-specific traffic studies. The City has also commissioned long-range planning studies of bicycle and pedestrian facilities over the last decade.

In 2003, the City established a local revenue stream, the Traffic Impact Fee, specific to transportation and linked to the demand for new transportation facilities brought on by land development. Other financing sources include the State Gasoline Tax; Prop 42; the Federal government's new transportation funding program, called the Safe, Accountable, Flexible,

Efficient Transportation Equity Act: A Legacy for Users (SAFETEA-LU); as well as other local support.

Traffic & Transportation Projects

There are 52 projects included that relate directly to Traffic & Transportation. The major projects are:

Undergrounding of Overhead Utilities. Undergrounding of utilities within the City of Sunnyvale began in May 1967 when the Zoning Code was amended so that the undergrounding of overhead utility lines would, thereafter, be required in connection with any new residential subdivision. In January 1970, Council approved a further modification to the Municipal Code calling for the undergrounding of overhead utility lines in all new developments (commercial, industrial and residential). In September 1985, due to the substantial costs encountered by developers for the undergrounding of utilities, the City assumed a participatory role in undergrounding costs in neighborhoods that were already developed.

Due to the high cost of undergrounding, this project was removed from the Projects Budget several years ago. This year the project to underground utilities is

recommended to be included in the budget. The total cost associated with undergrounding four areas is approximately \$23 million; however, through the Rule 20A cost sharing from PG&E, it is estimated that the City's share would be only about \$6 million over the next 20 years. The individual project areas are currently proposed in about four-year intervals.

Mathilda Avenue Railroad Overpass Replacement and Reconfiguration. The State of California Department of Transportation (CalTrans) inspects bridges throughout the state every other year for structural adequacy and functional operation. As per the CalTrans inspection report in 2000, the current Mathilda Avenue Railroad Overpass bridge design does not meet bridge pier clearance standards, deceleration lane design standards, shoulder width standards, and bridge railing standards. This project was initiated in 2000. Construction is anticipated to begin in FY 2008/2009 and be complete in FY 2010/2011.

The total project cost is budgeted at \$29.7 million. The project is primarily funded by a Federal Highway Bridge Program grant, which will pay for 88.53% of the total project costs. The remaining 11.47% will be financed by the Gas Tax Fund and Traffic Mitigation Fees.

Borregas Avenue Bicycle Corridor. This project involves the design and construction of new bicycle and

pedestrian bridges on Borregas Avenue over US 101 and State Route 237. The construction of overcrossings will eliminate approximately two miles of detours that currently exist for bicyclists and pedestrians who wish to cross over the freeways. The total project cost is \$8.4 million, funded by various grants from the Valley Transportation Authority (VTA) in the amount of \$5.7 million, a Transportation Development Act grant of \$400,000 and Traffic Mitigation Funds of \$2.3 million. The project design and environmental reviews are complete. Staff anticipates recommending Council award of contract for this project in mid-2007.

Mathilda/237 Area Transportation Improvements/Mary Avenue Extension. The project improves access to the Moffett Industrial Park north of State Route 237. The project extends Mary Avenue from its current terminus at Almanor Avenue over US 101 and State Route 237 and connects to the roadway network in and around the Lockheed Plant 1 area. This project has been in the planning stages since the late 1980's and was first included in the General Plan in 1972. The project is a major element of the City's long-range Transportation Strategic Program. The City has included \$500,000 from Transportation Impact Fees in FY 2007/2008 to finance the initial planning and study required by Caltrans. The VTA has recognized this project as a regional freeway improvement priority and desires for the City to complete project development

work in order to ready the project for future outside funding.

Unfunded Projects

Unfunded projects fall into several categories, with many having potential funding sources that can be pursued. Approximately eight projects totaling \$104 million are included in the Valley Transportation Plan (VTP) 2030, which is the long range regional transportation plan for Santa Clara County. Federal, State, and regional transportation funding flows through the levels of government in several different ways, but essentially lies with regional agencies. In Santa Clara County, that agency is the VTA, and the VTP 2030 captures projects of regional significance with respect to air quality or transportation system

capacity enhancement, as well as other significant projects utilizing regional or local funding sources. The VTP 2030 contains the Sunnyvale projects that are considered eligible priorities for projected federal, state, and regional funding for Santa Clara County within the lifetime of the plan. As the funding projections become reality over the life of the plan, project-specific allocations would be made and the City would realize funding for construction of the projects. If the City wishes to have any of these projects constructed sooner than grant funding is available, it will be necessary to identify local revenues.

Table I, which appears on the following page, presents a listing of the funded projects. Table II appears next and presents unfunded projects. Project information sheets showing the details for each project appear on the following pages.

Table I
FY 2007/2008
Traffic & Transportation Projects -- Funded

Project #:	Description	Type	Project #:	Description	Type
802150	Utility Undergrounding Cost Sharing	Capital	826900	Washington Ave./Mathilda Ave.	Capital
802500	City Share of Development Costs - Streets	Capital		Intersection Widening	
816000	Future Traffic Signal Const./Modification	Capital	816050	Repair of City Bridges and Culverts	Infrastructure
821870	Borregas Avenue Bicycle Corridor	Capital	820120	Repaint Street Light Poles	Infrastructure
823681	Mary Ave. Route 280 Bicycle Footbridge	Capital	820140	Comp./Radio Controlled Landscape Irriga.	Infrastructure
823690	Evelyn Ave. Bike Lanes from Bernardo Ave. to Sunnyvale Ave.	Capital	820160	Traffic Signal Controller Repl.-Mathilda Ave.	Infrastructure
823911	Bernardo Avenue Caltrain Undercrossing	Capital	820180	Traffic Signal Controller Replacement	Infrastructure
824061	Pedestrian Lighted Crosswalk	Capital	820190	Traffic Signal Underground Replacement	Infrastructure
824910	Frances Street Transit Corridor Imps.	Capital	820200	Traffic Signal Light Emitting Diode (LED) Array Replacements	Infrastructure
825080	Evelyn Avenue Bike Lanes, Sunnyvale Ave. to Reed Ave.	Capital	822710	Mathilda Ave R.R. Overpass Improvements	Infrastructure
825130	Radar Speed Signs for School Areas	Capital	825290	Pavement Rehabilitation	Infrastructure
825510	Roadway Rehabilitation on Various Streets	Capital	825340	Street Lights Conduit Replacement	Infrastructure
825540	Transp. Grant Matching Funds--Gas Tax	Capital	825550	Adaptive Traffic Signal Control Upgrade	Infrastructure
825541	Transp. Grant Matching Funds--Traffic Mit.	Capital	825600	Caribbean Drive Bridge Improvement	Infrastructure
825630	Mary Ave. Extension Engineering/Environmental Analysis	Capital	825610	Fair Oaks Ave. Overhead Bridge	Infrastructure
826050	Blair Ave. Neighborhood Traffic Calming	Capital	825620	Wolfe Road Caltrain Overcrossing	Infrastructure
826470	Mathilda Ave. Traffic Signal Project	Capital	825730	Ped. Lighted Crosswalk Maint. & Replace.	Infrastructure
826480	Sunnyvale Multimodal Station Bike Parking	Capital	825740	Battery Backup System for Traffic Signal Maintenance	Infrastructure
826570	Tasman/Fair Oaks Area Streetscape and Sense of Place	Capital	826850	Calabazas Creek Bridge at Old Mt. View/Alviso Rd.	Infrastructure
826730	Underground Overhead Utilities	Capital	827120	Calabazas Creek Bridge at Arques	Infrastructure
826830	Sunnyvale Ave. at Arques Ave. ADA Mods.	Capital	817100	City-wide Traffic Deficiency Plan	Special
826840	Radar Speed Signs for Various Locations	Capital	824560	Pedestrian Safety/Opportunities Plan	Special
826860	Internally Illuminated Street Name Sign Pilot	Capital	824860	Traffic Calming - Riding Group Donation	Special
826870	Signing & Safety Enhance.for Roadway Sys.	Capital	825070	Bicycle Map Revision	Special
826880	Norman Drive Traffic Calming	Capital	825530	Computerized Transportation Model Update	Special
826890	Mathilda/SR 237/US 101 Interchange Improvement Study Report	Capital	825990	Caltrain Northside Pedestrian Access Improvements	Special
			826690	El Camino Real Master Schematic Design	Special

Table II
FY 2007/2008
Traffic & Transportation Projects -- Unfunded

<u>Project #:</u>	<u>Description</u>	<u>Type</u>	<u>Project #:</u>	<u>Description</u>	<u>Type</u>
807651	Emergency Preemption Receiver Installation	Capital	900215	VTP 2030 Highway, Expwy and Local	Capital
815901	Lawrence Expressway and Wildwood Ave.	Capital		Streets and Roads Projects	
	Realignment		900222	Countywide Integration of Traffic Manage-	Capital
900087	Traffic Speed & Volume Monitoring Stations	Capital		ment Center	
900091	Fiberoptic Conduit/Cable Installation	Capital	900223	Closed Circuit TV Cameras for Traffic Mgmt.	Capital
900096	Countdown Pedestrian Signal Indication	Capital	900224	Expansion of Adaptive Traffic Signal Control	Capital
	Installation		900227	ITS Traffic Signal Controller Upgrade	Capital
900103	In-Pavement Crosswalk Warning Lights	Capital	900454	Stevens Creek Trail Connector	Capital
900141	Future Traffic Calming Projects	Capital	900468	Sunnyvale East Channel Trail (JWC	Capital
900151	Bicycle Capital Improvement Program	Capital		Greenbelt to 237)	
900152	Moffett Park Bicycle and Pedestrian Trails	Capital	900469	El Camino Real Gateway Program	Capital
			900275	Caribbean Bridge Replacement	Infrastructure

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